

FIG. 1

Primers for PCR Amplification the DHFR Deletion Polymorphism Region

Forward primer: 5'-CTA AAC TGC ATC GTC GCT GTG-3'

Reverse primer: 5'-AAA AGG GGA ATC CAG TCG G-3'

FIG. 2

Genotypes of the DHFR 19 bp Deletion by Non-Polyacrylamide Gel Electrophoresis

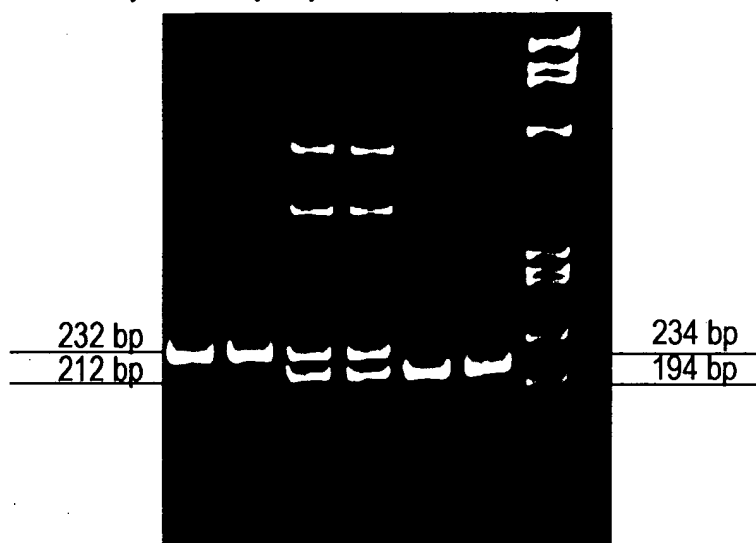


FIG. 3

Sequences of PCR Amplification Products
in the Region of the DHFR Deletion Polymorphism Region

Allele 1	GCTGCCCACGGTCGGGGTACCTGGGCGGGACGCGCCAGGCCGACTCCCGGCGAGA	*
Allele 2	GCTGCCCACGGTCGGGGT.....GGCCGACTCCCGGCGAGA	

FIG. 4A

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1 CTGCAGCGCC AGGGTCCACC TGGTCGGCTG CACCTGTGGA GGAGGAGGTG
51 GATTTTCAGGC TTCCCGTAGA CTGGAAGAAT CGGCTCAAAA CCGCTTGCCT
101 CGCAGGGGCT GAGCTGGAGG CAGCGAGGCC GCCCGACGCA GGCTTCCGGC
151 GAGACATGGC AGGGCAAGGA TGGCAGCCCG GCGGCAGGGC CCGGCGAGGA
201 GCGCGAACCC GCGGCCGCGAG TTCCAGGCG TCTGCGGGCG CGAGCACGCC
251 GCGACCCTGC GTGCGCCGGG GCGGGGGGGC GGGGCCTCGC CTGCACAAAT
301 AGGGACGAGG GGGCGGGGCG GCCACAATTT CGCGCCAAAC TTGACCGCGC
351 GTTCTGCTGT AACGAGCGGG CTCGGAGGTC CTCCCGCTGC TGTCTGCTGT
401 GGTTCGCTAA ACTGCATCGT CGCTGTGTCC CAGAACATGG GCATCGGCAA
451 GAACGGGGAC CTGCCCTGGC CACCGCTCAG GTATCTGCCG GGCCGGGGCG
501 ATGGGACCCA AACGGGCGCA GGCTGCCCAC GGTGCGGGTA CCTGGGCGGG
551 ACGCGCCAGG CCGACTCCCG GCGAGAGGAT GGGGCCAGAC TTGCGGTCTG
601 CGCTGGCAGG AAGGGTGGGC CCGACTGGAT TCCCCTTTTC TGCTGCGCGG
651 GAGGCCAGT TGCTGATTTC TGCCCGGATT CTGCTGCCCC GTGAGGTCTT
701 TGCCCTGCGG CGCCCTCGCC CAGGGCAAAG TCCCAGCCCT GGAGAAAACA
751 CCTCACCCCT ACCCACAGCG CTCCGTTTGT CAGGTGCCTT AGAGCTCGAG
801 CCCAAGGGAT AATGTTTCGA GTAACGCTGT TTCTCTAACT TGTAGGAATG
851 AATTCAGATA TTTCCAGAGA ATGACCACAA CCTCTTCAGT AGAAGGTAAT
901 GTGGGATTAA GTAGGGTCTT GCTTGATGAA GTTTACCAGT GCAAATGTTA
951 GTTAAATGGA AAGTTTTCCG TGTTAATCTG GGACCTTTTC TCTTATTATG
1001 GATCTGTATG ATCTGTATGC AGTTCCCAAG GTTCATTTAC CATTATTAAA
1051 AAATTTTTGT CTTAGAAATT TTATGTATGT CAACGCACGA GCAAATTATC
1101 AGGCATGGGG CAGAATTGGC AACTGGGTGG AGGCTTCGGT GGAGGTTAGC
1151 ACTCCGAAAG GAAAACAGAG TAGGCCTTTG GAACAGCTGC TGGAAGAGAT
1201 AAGGCCTGAA CAAGGGCAGT GGAGAAGAGA GGGTAAAAAT TTTTAAAGGT
1251 TACATGACCC TGGATTTTGG AGATC

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FIG 4B

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1 CTGCAGCGCC AGGGTCCACC TGGTCGGCTG CACCTGTGGA GGAGGAGGTG
51 GATTTTCAGGC TTCCCGTAGA CTGGAAGAAT CGGCTCAAAA CCGCTTGCCT
101 CGCAGGGGCT GAGCTGGAGG CAGCGAGGCC GCCCGACGCA GGCTTCCGGC
151 GAGACATGGC AGGGCAAGGA TGGCAGCCCG GCGGCAGGGC CCGGCGAGGA
201 GCGCGAACCC GCGGCCGCGAG TTCCCAGGCG TCTGCGGGCG CGAGCACGCC
251 GCGACCCTGC GTGCGCCGGG GCGGGGGGGC GGGGCCTCGC CTGCACAAAT
301 AGGGACGAGG GGGCGGGGCG GCCACAATTT CGCGCCAAAC TTGACCGCGC
351 GTTCTGCTGT AACGAGCGGG CTCGGAGGTC CTCCCGCTGC TGTCATGGTT
401 GGTTGCTTAA ACTGCATCGT CGCTGTGTCC CAGAACATGG GCATCGGCAA
451 GAACGGGGAC CTGCCCTGGC CACCGCTCAG GTATCTGCCG GGCCGGGGCG
501 ATGGGACCCA AACGGGCGCA GGCTGCCCCA GGTCGGGGT
551 GG CCGACTCCCCG GCGAGAGGAT GGGGCCAGAC TTGCGGTCTG
601 CGCTGGCAGG AAGGGTGGGC CCGACTGGAT TCCCCTTTTC TGCTGCGCGG
651 GAGGCCCAGT TGCTGATTTT TGCCCGGATT CTGCTGCCCC GTGAGGTCTT
701 TGCCCTGCGG CGCCCTCGCC CAGGGCAAAG TCCCAGCCCT GGAGAAAACA
751 CCTCACCCCT ACCCACAGCG CTCCGTTTGT CAGGTGCCTT AGAGCTCGAG
801 CCAAGGGAT AATGTTTCGA GTAACGCTGT TTCTCTAACT TGTAGGAATG
851 AATTCAGATA TTTCCAGAGA ATGACCACAA CCTCTTCAGT AGAAGGTAAT
901 GTGGGATTAA GTAGGGTCTT GCTTGATGAA GTTTACCAGT GCAAATGTTA
951 GTTAAATGGA AAGTTTTCCG TGTTAATCTG GGACCTTTTC TCTTATTATG
1001 GATCTGTATG ATCTGTATGC AGTTCCCAAG GTTCATTTAC CATTATTAAA
1051 AAATTTTTGT CTTAGAAATT TTATGTATGT CAACGCACGA GCAAATTATC
1101 AGGCATGGGG CAGAATTGGC AACTGGGTGG AGGCTTCGGT GGAGGTTAGC
1151 ACTCCGAAAG GAAAACAGAG TAGGCCTTTG GAACAGCTGC TGGAAGAGAT
1201 AAGGCCTGAA CAAGGGCAGT GGAGAAGAGA GGGTAAAAAT TTTTAAAGGT
1251 TACATGACCC TGGATTTTGG AGATC

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